end users could use the same application with a variety of back-end vendor services, and the vendors themselves could compete on price, quality, availability, etc. Interoperability with substituted services is non-trivial, however, ...

4 Linguistic profiling of texts for the purpose of language verification

Hans Van Halteren, Nelleke Oostdijk

August 2004 **Proceedings of the 20th international conference on Computational Linguistics COLING '04**

Publisher: Association for Computational Linguistics

Full text available: pdf(223.76 KB)   Additional Information: full citation, abstract, references

In order to control the quality of internet-based language corpora, we developed a method to verify automatically that texts are of (near-) native quality. For the LOCNESS and ICLE corpora, the method is rather successful in separating native and non-native learner texts. The Equal Error Rate is about 10%. However, for other domains, such as internet texts, separate classifiers have to be trained on the basis of suitable seed corpora.

5 Mutual disambiguation of recognition errors in a multimodel architecture

Sharon Oviatt

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit CHI '99**

Publisher: ACM Press

Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

As a new generation of multimodal/media systems begins to define itself, researchers are attempting to learn how to combine different modes into strategically integrated whole systems. In theory, well designed multimodal systems should be able to integrate complementary modalities in a manner that supports mutual disambiguation (MD) of errors and leads to more robust performance. In this study, over 2,000 multimodal utterances by both native and accented speakers of English were proce ...

Keywords: diverse users, multimodal architecture, mutual disambiguation, rebust performances, recognition errors, speech and pen input

6 Machine translation and multilingual systems: Speaker, accent, and language identification using multilingual phone strings

Tanja Schultz, Qin Jin, Kornel Laskowski, Alicia Tribble, Alex Waibel

March 2002 **Proceedings of the second international conference on Human Language Technology Research**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: pdf(654.13 KB)   Additional Information: full citation, abstract, references

In this paper we investigated the identification of non-verbal cues from spoken speech, namely speaker, accent, and language. For these tasks, a joint framework is developed which uses phone strings, derived from different language phone recognizers, as intermediate features and which performs classification decisions based on their perplexities. Our evaluation on variable distance data proved the robustness of the approach, achieving a 96.7% speaker identification rate. Furthermore, we achie ...

7 You're not from 'round here, are you?: naive Bayes detection of non-native utterance text

Laura Mayfield Tomokiyo, Rosie Jones

June 2001 **Second meeting of the North American Chapter of the Association for Computational Linguistics on Language technologies 2001 NAACL '01**

Publisher: Association for Computational Linguistics

Full text available: pdf(197.69 KB)   Additional Information: full citation, abstract, references, citings

> Native and non-native use of language differs, depending on the proficiency of the speaker, in clear and quantifiable ways. It has been shown that customizing the acoustic and language models of a natural language understanding system can significantly improve handling of non-native input; in order to make such a switch, however, the nativeness status of the user must be known. In this paper, we show that naive Bayes classification can be used to identify non-native utterances of English. The ad ...

8 Video helps remote work: speakers who need to negotiate common ground benefit ☐
from seeing each other
Elizabeth S. Veinott, Judith Olson, Gary M. Olson, Xiaolan Fu
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit CHI '99**
Publisher: ACM Press

Full text available: pdf(978.41 KB)   Additional Information: full citation, abstract, references, citings, index terms

> More and more organizations are forming teams that are not co-located. These teams communicate via email, fax, telephone and audio conferences, and sometimes video. The question often arises whether the cost of video is worth it. Previous research has shown that video makes people more satisfied with the work, but it doesnt help the quality of the work itself. There is one exception; negotiation tasks are measurably better with video. In this study, we show that the same effect holds ...

> **Keywords**: common ground, communication, negotiation, remote work, video-mediated communication

9 Improvements in non-verbal cue identification using multilingual phone strings ☐
Tanja Schultz, Qin Jin, Kornel Laskowski, Alicia Tribble, Alex Waibel
July 2002 **Proceedings of the ACL-02 workshop on Speech-to-speech translation: algorithms and systems - Volume 7**
Publisher: Association for Computational Linguistics
Full text available: pdf(136.13 KB)   Additional Information: full citation, abstract, references

> Today's state-of-the-art front-ends for multilingual speech-to-speech translation systems apply monolingual speech recognizers trained for a single language and/or accent. The monolingual speech engine is usually adaptable to an unknown speaker over time using unsupervised training methods; however, if the speaker was seen during training, their specialized acoustic model will be applied, since it achieves better performance. In order to make full use of specialized acoustic models in this propo ...

10 TwicPen: hand-held scanner and translation software for non-native readers ☐
Eric Wehrli
July 2006 **Proceedings of the COLING/ACL on Interactive presentation sessions**
Publisher: Association for Computational Linguistics
Full text available: pdf(225.88 KB)   Additional Information: full citation, abstract, references

> TwicPen is a terminology-assistance system for readers of printed (ie. off-line) material in foreign languages. It consists of a hand-held scanner and sophisticated parsing and translation software to provide readers a limited number of translations selected on the basis of a linguistic analysis of the whole scanned text fragment (a phrase, part of the sentence, etc.). The use of a morphological and syntactic parser makes it possible (i) to disambiguate to a large extent the word selected by the ...

11 Threads and input/output in the synthesis kernal

H. Massalin, C. Pu

November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89**, Volume 23 Issue 5

Publisher: ACM Press

Full text available: pdf(1.34 MB)　　Additional Information: full citation, abstract, references, citings, index terms

The Synthesis operating system kernel combines several techniques to provide high performance, including kernel code synthesis, fine-grain scheduling, and optimistic synchronization. Kernel code synthesis reduces the execution path for frequently used kernel calls. Optimistic synchronization increases concurrency within the kernel. Their combination results in significant performance improvement over traditional operating system implementations. Using hardware and software emulating a SUN 3 ...

12 Posters: Error recovery in a blended style eye gaze and speech interface

Yeow Kee Tan, Nasser Sherkat, Tony Allen

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces ICMI '03**

Publisher: ACM Press

Full text available: pdf(227.98 KB)　Additional Information: full citation, abstract, references, index terms

In the work carried out earlier [1][2], it was found that an eye gaze and speech enabled interface was the most preferred form of data entry method when compared to other methods such as mouse and keyboard, handwriting and speech only. It was also found that several non-native United Kingdom (UK) English speaking speakers did not prefer the eye gaze and speech system due to the low success rate caused by the inaccuracy of the speech recognition component. Hence in order to increase the usability ...

Keywords: blended multimodal interface, error recovery and usability, eye gaze tracking, multimodal interface, speech recognition

13 Optimistic incremental specialization: streamlining a commercial operating system

C. Pu, T. Autrey, A. Black, C. Consel, C. Cowan, J. Inouye, L. Kethana, J. Walpole, K. Zhang

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(1.32 MB)　　Additional Information: full citation, references, citings, index terms

14 Late-breaking/short talks: Video matters!: when communication ability is stressed, video helps

Elizabeth S. Veinott, Judith S. Olson, Gary M. Olson, Xiaolan Fu

March 1997 **CHI '97 extended abstracts on Human factors in computing systems: looking to the future CHI '97**

Publisher: ACM Press

Full text available: pdf(229.22 KB)　Additional Information: full citation, abstract, references, citings

This study assesses whether remotely located pairs of people working on a collaborative task benefit from using video, looking in particular at people for whom communication is stressed. In this study, we extend the research on video-mediated communication to the domain of non-native speaker interactions. Thirty-six pairs performed a map task using either audio-only or audio-plus-video for communication. Half the pairs were non-native speakers, half were native speakers. As in many studies of vi ...

Keywords: non-native speaker interaction, remote work, video-mediated communication

15 Standards, pedagogy and requirements: Effectively teaching coding standards in programming
Xiaosong Li, Christine Prasad
October 2005 **Proceedings of the 6th conference on Information technology education SIGITE '05**
Publisher: ACM Press
Full text available: pdf(215.42 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we report on a study that was carried out to investigate students' opinions on learning and accepting coding standards in programming courses. We used a questionnaire survey to gather data. We also used the information observed from our teaching practices. An analysis of the data indicated that most students' believe coding standards are important in programming courses but tend not to comply with them, thus implying possible flaws in the teaching strategies used. We also present ...

Keywords: coding standards, teaching programming

16 Queue Focus: Game Development: Fun and Games: Multi-Language Development
Andrew M. Phelps, David M. Parks
February 2004 **Queue**, Volume 1 Issue 10
Publisher: ACM Press
Full text available: pdf(5.69 MB)
html(36.56 KB)   Additional Information: full citation, citings, index terms

17 Camera-based input and video techniques: A low-latency lip-synchronized videoconferencing system
Milton Chen
April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '03**
Publisher: ACM Press
Full text available: pdf(266.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

Audio is presented ahead of video in some videoconferencing systems since audio requires less time to process. Audio could be delayed to synchronize with video to achieve lip synchronization; however, the overall audio latency might then become unacceptable. We built a videoconferencing system to achieve lip synchronization with minimal perceived audio latency. Instead of adding a fixed audio delay, our system time-stretches the audio at the beginning of each utterance until the audio is synchro ...

Keywords: lip synchronization, videoconferencing

18 Cosy: an operating system for highly parallel computers
Roger Butenuth, Wolfgang Burke, Hans-Ulrich Heiß
April 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(921.49 KB)   Additional Information: full citation, index terms

19 On micro-kernel construction   ☐

J. Liedtke

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: ⊠ pdf(1.65 MB)   Additional Information: full citation, references, citings, index terms

20 Helping users navigate in multimedia documents: the affective domain   ☐

Marcia Peoples Halio

November 1992 **Proceedings of the 10th annual international conference on Systems documentation SIGDOC '92**

Publisher: ACM Press

Full text available: ⊠ pdf(512.62 KB)   Additional Information: full citation, references, citings, index terms

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I Mandjavidze - ATLAS Internal Note, DAQ-NO-069, May, 1997 - www-dapnia.cea.fr
... DEC would allow users to access the **native** ATM layers ... ATM fabrics are build around 13 x 13 **non**-blocking cross ... For this the Digital UNIX **kernel** has to be rebuilt ...

[PS] To appear in Software, Practice and Experience, 1998. - all 3 versions »
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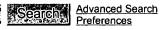
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1. Towards automatic scoring of non-native spontaneous speech   ☐
Klaus Zechner, Isaac I. Bejar
June 2006 **Proceedings of the main conference on Human Language Technology Conference of the North American Chapter of the Association of Computational Linguistics**
Publisher: Association for Computational Linguistics
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> This paper investigates the feasibility of automated scoring of spoken English proficiency of non-native speakers. Unlike existing automated assessments of spoken English, our data consists of spontaneous spoken responses to complex test items. We perform both a quantitative and a qualitative analysis of these features using two different machine learning approaches. (1) We use support vector machines to produce a score and evaluate it with respect to a mode baseline and to human rater agreement ...

2 Specification and verification of the UCLA Unix security kernel   ☐
◈ Bruce J. Walker, Richard A. Kemmerer, Gerald J. Popek
February 1980 **Communications of the ACM**, Volume 23 Issue 2
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> **Keywords**: ALPHARD, Unix, formal specifications, operating systems, programming methodology, protection, security, security kernel, verification

3 Web services: composition, integration and interoperability: Interoperability among   ☐
independently evolving web services
Shankar R. Ponnekanti, Armando Fox
October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**
Publisher: Springer-Verlag New York, Inc.
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> The increasing popularity of XML Web services motivates us to examine if it is feasible to substitute one vendor service for another when using a Web-based application, assuming that these services are "derived from" a common base. If such substitution were possible,